

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/501,592
Source: PG/10
Date Processed by STIC: 2/14/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 02/14/2005

PATENT APPLICATION: US/10/501,592

TIME: 08:05:35

Input Set : A:\56446-20038.01 - Seqlist (from .44).txt

Output Set: N:\CRF4\02142005\J501592.raw

3 <110> APPLICANT: FREY, Gerhard
 4 SHORT, Jay M.
 5 PARRA-GESSERT, Lilian
 7 <120> TITLE OF INVENTION: METHODS FOR MAKING POLYNUCLEOTIDES AND PURIFYING
 8 DOUBLE-STRANDED POLYNUCLEOTIDES
 10 <130> FILE REFERENCE: 5644620038.01
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/501,592
 C--> 13 <141> CURRENT FILING DATE: 2004-07-14
 15 <150> PRIOR APPLICATION NUMBER: US 10/077,474
 16 <151> PRIOR FILING DATE: 2002-02-14
 18 <150> PRIOR APPLICATION NUMBER: US 60/348,609
 19 <151> PRIOR FILING DATE: 2002-01-14
 21 <150> PRIOR APPLICATION NUMBER: US 60/348,761
 22 <151> PRIOR FILING DATE: 2002-01-14
 24 <150> PRIOR APPLICATION NUMBER: US 60/348,764
 25 <151> PRIOR FILING DATE: 2002-01-14
 27 <160> NUMBER OF SEQ ID NOS: 46
 29 <170> SOFTWARE: PatentIn version 3.2
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 14
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: oligonucleotide library member
 40 <220> FEATURE:
 41 <221> NAME/KEY: misc_feature
 42 <222> LOCATION: (1)..(6)
 43 <223> OTHER INFORMATION: n is a, c, g, or t
 45 <400> SEQUENCE: 1
 W--> 46 nnnnnnagaa gagc
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 14
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Artificial
 54 <220> FEATURE:
 55 <223> OTHER INFORMATION: oligonucleotide library member
 58 <220> FEATURE:
 59 <221> NAME/KEY: misc_feature
 60 <222> LOCATION: (9)..(14)
 61 <223> OTHER INFORMATION: n is a, c, g, or t
 63 <400> SEQUENCE: 2
 W--> 64 gctcttctnn nnnn
 67 <210> SEQ ID NO: 3

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68 <211> LENGTH: 15
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial
72 <220> FEATURE:
73 <223> OTHER INFORMATION: oligonucleotide library member
76 <220> FEATURE:
77 <221> NAME/KEY: misc_feature
78 <222> LOCATION: (1)..(6)
79 <223> OTHER INFORMATION: n is a, c, g, or t
81 <400> SEQUENCE: 3
W--> 82 nnnnnntgaa gagag 15
85 <210> SEQ ID NO: 4
86 <211> LENGTH: 15
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial
90 <220> FEATURE:
91 <223> OTHER INFORMATION: oligonucleotide library member
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: (10)..(15)
97 <223> OTHER INFORMATION: n is a, c, g, or t
99 <400> SEQUENCE: 4
W--> 100 ctctcttcan nnnnn 15
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 30
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial
108 <220> FEATURE:
109 <223> OTHER INFORMATION: oligonucleotide library member
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: (1)..(6)
115 <223> OTHER INFORMATION: n is a, c, g, or t
117 <400> SEQUENCE: 5
W--> 118 nnnnnntgaa gagagctgct actaactgca 30
121 <210> SEQ ID NO: 6
122 <211> LENGTH: 26
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial
126 <220> FEATURE:
127 <223> OTHER INFORMATION: oligonucleotide library member
130 <220> FEATURE:
131 <221> NAME/KEY: misc_feature
132 <222> LOCATION: (21)..(26)
133 <223> OTHER INFORMATION: n is a, c, g, or t
135 <400> SEQUENCE: 6
W--> 136 gtttagtagca gctctcttca nnnnnn 26
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 23

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141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial
144 <220> FEATURE:
145 <223> OTHER INFORMATION: oligonucleotide library member
148 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: (10)..(15)
151 <223> OTHER INFORMATION: n is a, c, g, or t
153 <400> SEQUENCE: 7
W--> 154 ctctcttcan nnnnnagaag agc 23
157 <210> SEQ ID NO: 8
158 <211> LENGTH: 23
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial
162 <220> FEATURE:
163 <223> OTHER INFORMATION: oligonucleotide library member
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (9)..(14)
169 <223> OTHER INFORMATION: n is a, c, g, or t
171 <400> SEQUENCE: 8
W--> 172 gctcttctnn nnnntgaaga gag 23
175 <210> SEQ ID NO: 9
176 <211> LENGTH: 55
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial
180 <220> FEATURE:
181 <223> OTHER INFORMATION: oligonucleotide library member
184 <220> FEATURE:
185 <221> NAME/KEY: misc_feature
186 <222> LOCATION: (10)..(15)
187 <223> OTHER INFORMATION: n is a, c, g, or t
189 <400> SEQUENCE: 9
W--> 190 ctctcttcan nnnnnagaag agcgggtctt ccaactagag aattcgatat ctgca 55
193 <210> SEQ ID NO: 10
194 <211> LENGTH: 51
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial
198 <220> FEATURE:
199 <223> OTHER INFORMATION: oligonucleotide library member
202 <220> FEATURE:
203 <221> NAME/KEY: misc_feature
204 <222> LOCATION: (37)..(42)
205 <223> OTHER INFORMATION: n is a, c, g, or t
207 <400> SEQUENCE: 10
W--> 208 gatatcgaat tctctagttg gaagaccgc tcttctnnnn nntgaagaga g 51
211 <210> SEQ ID NO: 11
212 <211> LENGTH: 13
213 <212> TYPE: DNA

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```

214 <213> ORGANISM: Artificial
216 <220> FEATURE:
217 <223> OTHER INFORMATION: first strand of immobilized double stranded oligonucleotide,
218     invariant region
220 <400> SEQUENCE: 11
221 cgaattggag ctc                                     13
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 17
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial
229 <220> FEATURE:
230 <223> OTHER INFORMATION: second strand of immobilized double stranded
oligonucleotide,
231     invariant region
233 <400> SEQUENCE: 12
234 ccccgagctc caattcg                                 17
237 <210> SEQ ID NO: 13
238 <211> LENGTH: 45
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial
242 <220> FEATURE:
243 <223> OTHER INFORMATION: first strand of immobilized double stranded oligonucleotide
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (1)..(6)
249 <223> OTHER INFORMATION: n is a, c, g, or t
251 <400> SEQUENCE: 13
W--> 252 nnnnnncgcg cgtaatacga ctactatag ggcgaattgg agctc           45
255 <210> SEQ ID NO: 14
256 <211> LENGTH: 49
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial
260 <220> FEATURE:
261 <223> OTHER INFORMATION: second strand of immobilized double stranded oligonucleotide
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (44)..(49)
267 <223> OTHER INFORMATION: n is a, c, g, or t
269 <400> SEQUENCE: 14
W--> 270 ccccgagctc caattcgccc tatagtgagt cgtattacgc gcgnnnnnn       49
273 <210> SEQ ID NO: 15
274 <211> LENGTH: 36
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial
278 <220> FEATURE:
279 <223> OTHER INFORMATION: first strand of double-stranded vector insert
281 <400> SEQUENCE: 15
282 agctcgaaga cttgggggttg tcttcaccgc ggtggc           36
285 <210> SEQ ID NO: 16
286 <211> LENGTH: 32

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287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial
290 <220> FEATURE:
291 <223> OTHER INFORMATION: second strand of double-stranded vector insert
293 <400> SEQUENCE: 16
294 ggccgccacc gcggttaagac cccaagtctt cg 32
297 <210> SEQ ID NO: 17
298 <211> LENGTH: 37
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial
302 <220> FEATURE:
303 <223> OTHER INFORMATION: first strand of double-stranded vector insert
305 <400> SEQUENCE: 17
306 gggcatcatc atcatcatct gcaggaattc gatatga 37
309 <210> SEQ ID NO: 18
310 <211> LENGTH: 41
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial
314 <220> FEATURE:
315 <223> OTHER INFORMATION: second strand of double-stranded vector insert
317 <400> SEQUENCE: 18
318 agcttcatat cgaattcctg cagatgatga tgatgatgcc c 41
321 <210> SEQ ID NO: 19
322 <211> LENGTH: 43
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <223> OTHER INFORMATION: first strand of double-stranded vector insert
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
332 <222> LOCATION: (14)..(19)
333 <223> OTHER INFORMATION: n is a, c, g, or t
335 <400> SEQUENCE: 19
W--> 336 gggacgttct tcgnnnnnnt gaagagagct gctactaact gca 43
339 <210> SEQ ID NO: 20
340 <211> LENGTH: 39
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial
344 <220> FEATURE:
345 <223> OTHER INFORMATION: second strand of double-stranded vector insert
348 <220> FEATURE:
349 <221> NAME/KEY: misc_feature
350 <222> LOCATION: (21)..(26)
351 <223> OTHER INFORMATION: n is a, c, g, or t
353 <400> SEQUENCE: 20
W--> 354 gttagtagca gctctcttca nnnnnncgaa gaacgtccc 39
357 <210> SEQ ID NO: 21
358 <211> LENGTH: 240
359 <212> TYPE: DNA

```

RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/10/501,592

DATE: 02/14/2005
 TIME: 08:05:36

Input Set : A:\56446-20038.01 - Seqlist (from .44).txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. ~~1,2,3,4,5,6~~
 Seq#:2; N Pos. ~~9,10,11,12,13,14~~
 Seq#:3; N Pos. ~~1,2,3,4,5,6~~
 Seq#:4; N Pos. ~~10,11,12,13,14,15~~
 Seq#:5; N Pos. ~~1,2,3,4,5,6~~
 Seq#:6; N Pos. ~~21,22,23,24,25,26~~
 Seq#:7; N Pos. ~~10,11,12,13,14,15~~
 Seq#:8; N Pos. ~~9,10,11,12,13,14~~
 Seq#:9; N Pos. ~~10,11,12,13,14,15~~
 Seq#:10; N Pos. ~~37,38,39,40,41,42~~
 Seq#:13; N Pos. ~~1,2,3,4,5,6~~
 Seq#:14; N Pos. ~~44,45,46,47,48,49~~
 Seq#:19; N Pos. ~~14,15,16,17,18,19~~
 Seq#:20; N Pos. ~~21,22,23,24,25,26~~
 Seq#:21; N Pos. 104,105,106,107,108,109
 Seq#:22; N Pos. 132,133,134,135,136,137
 Seq#:30; N Pos. 1,2,3
 Seq#:31; N Pos. 1,2,3,4,5,6
 Seq#:32; N Pos. 44,45,46
 Seq#:33; N Pos. 14,15,16
 Seq#:34; N Pos. 21,22,23
 Seq#:35; N Pos. 14,15,16,17,18,19
 Seq#:36; N Pos. 21,22,23,24,25,26
 Seq#:37; N Pos. 101,102,103
 Seq#:38; N Pos. 108,109,110
 Seq#:41; N Pos. 19

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
 Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46

VERIFICATION SUMMARY

DATE: 02/14/2005

PATENT APPLICATION: US/10/501,592

TIME: 08:05:36

Input Set : A:\56446-20038.01 - Seqlist (from .44).txt

Output Set: N:\CRF4\02142005\J501592.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:120
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:60
L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:60
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0